PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT
s ee fo	rm PCT/ISA/220		INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)
			1	e form PCT/ISA/210 (second sheet)
Applicant's or agent's see form PCT/IS			FOR FURTHER A	
International applica PCT/GB2004/00		International filing date (05.01.2004	day/month/year)	Priority date (day/month/year) 07.01.2003
International Patent E04B5/40	Classification (IPC) or	both national classification	and IPC	
Applicant CORUS UK LIM	ITED			
1. This opinio ☑ Box No. ☑ Box No. ☐ Box No. ☐ Box No. ☑ Box No.	Basis of the op I Priority II Non-establish V Lack of unity of III Reasoned state	ment of opinion with reg of invention	ard to novelty, inventiv	re step and industrial applicability novelty, inventive step or industrial ement
Box No.	/I Certain docum	•		O. T. C. T. C.
☐ Box No.		s in the International apprations on the Internation		
2. FURTHER A			nai application	
written opinion the applicant International	on of the Internation chooses an Author	al Preliminary Examinin itv other than this one to	g Authority ("IPEA"). H	usually be considered to be a lowever, this does not apply where chosen IPEA has notifed the tional Searching Authority
submit to the	IPEA a written repl the date of mailing	v together, where appro	priate, with amendme	PEA, the applicant is invited to nts, before the expiration of three of 22 months from the priority date,
For further o	· otions, see Form PC	CT/SAppo		

Name and mailing address of the ISA:

Authorized Officer



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For further details, see notes to Form PCT/ISA/220.

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10/541486 JC20 Rec'd PCT/PTO 07 JUL 2005

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/000006

	Box	No. I	Basis of the opinion
1.	With the l	regard (anguage	to the language, this opinion has been established on the basis of the international application in the in which it was field, unless otherwise indicated under this item.
		languag	nion has been established on the basis of a translation from the original language into the following e , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With nece	regard to	to any nucleotide and/or amino acid sequence disclosed in the international application and the claimed invention, this opinion has been established on the basis of:
	a. ty	pe of ma	aterial:
		asec	quence listing
		table	(s) related to the sequence listing
	b. fo	rmat of r	material:
		in wr	itten format
		l in co	mputer readable form
	c. tin	ne of filir	ng/furnishing:
] conta	ained in the international application as filed.
	C] filed	together with the international application in computer readable form.
] furnis	shed subsequently to this Authority for the purposes of search.
3.		has bee copies is	on, in the case that more than one version or copy of a sequence listing and/or table relating theret in filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as late, were furnished.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/000006

1. ⊠	The folia	owing document h	as not bee	n rumisned	1:
	Ø	copy of the earlier	application	whose pr	iority has been claimed (Rule 43bis.1 and 66.7(a)).
		translation of the	earlier appl	ication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b))
	Conseq neverth	uently it has not b eless been establi	een possib shed on the	le to consi e assumpt	der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date.
2. 🛘					rity had been claimed due to the fact that the priority clai). Thus for the purposes of this opinion, the internationa
		te indicated above			he relevant date.
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see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following document/s/:
 - D1: GB-A-1 361 448 (PRINS NV;HOLLANDSE BOUWCOMBINATIE HOLLA) 24 July 1974 (1974-07-24)
 - D2: US-A-5 809 721 (ANTROPIUS JEAN DANIEL) 22 September 1998 (1998-09-22)
 - D3: US-A-5 056 348 (GRAY CHARLES R ET AL) 15 October 1991 (1991-10-15)
 - D4: EP-A-0 129 416 (ROBERTSON UK LTD H H) 27 December 1984 (1984-12-27)
 - D5: GB-A-2 195 680 (QUIKSPAN CONSTRUCTION LIMITED; UNIV SOUTHAMPTON) 13 April 1988 (1988-04-13)
- 2.1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 (and 2) does not involve an inventive step in the sense of Article 33(3) PCT.

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

a profiled steel decking (1, fig. 1) which comprises a roll formed steel sheet defining several crests and throughs (2) separated by inclined webs (3) and having boundaries between the webs (3) and the crests (2) which are radiussed to define corners each having a smooth curvilinear profile.

The subject-matter of claim 1 therefore differs from this known profiled steel decking in that the radius of said corners is between 15 and 30mm.

The problem to be solved by the present invention may therefore be regarded as selecting a radius which does not lead to a too high deformation and weakening of the corner zones.

The selected radius range of claim 1 (and claim 2) cannot be considered as involving an inventive step (Article 33(3) PCT), as the values of said ranges are

obvious for the man skilled in the roll forming of steel sheets. The skilled person would, without the exercise of inventive skill, consider selecting a radius value within said ranges in order to control the deformation of the corner zones.

Moreover, D2 (fig. 1A and 1B) shows a detail of the corner zone of such a steel decking and D3 (fig. 15 and 16) discloses the roll forming process of such a steel decking. From these documents it is clear that the corner zones of such a steel decking have a smooth curvilinear profile. There is no indication that the radius ranges disclosed in claim 1 and 2 fall outside the radii which a skilled person would consider when producing such a roll formed steel sheet.

2.2. Dependent claims 3-14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D4 and D5 and the corresponding parts cited in the search report.

(J. Demeester)